

FIG. 1

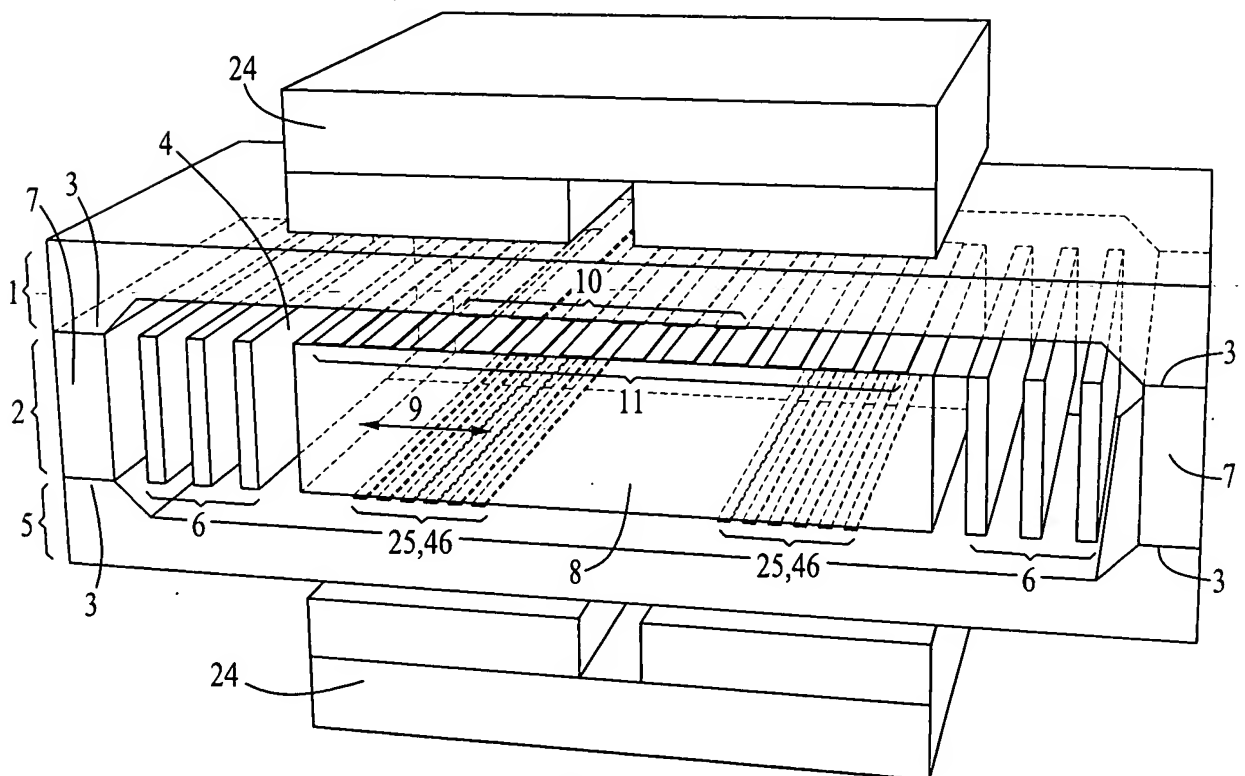


FIG. 2

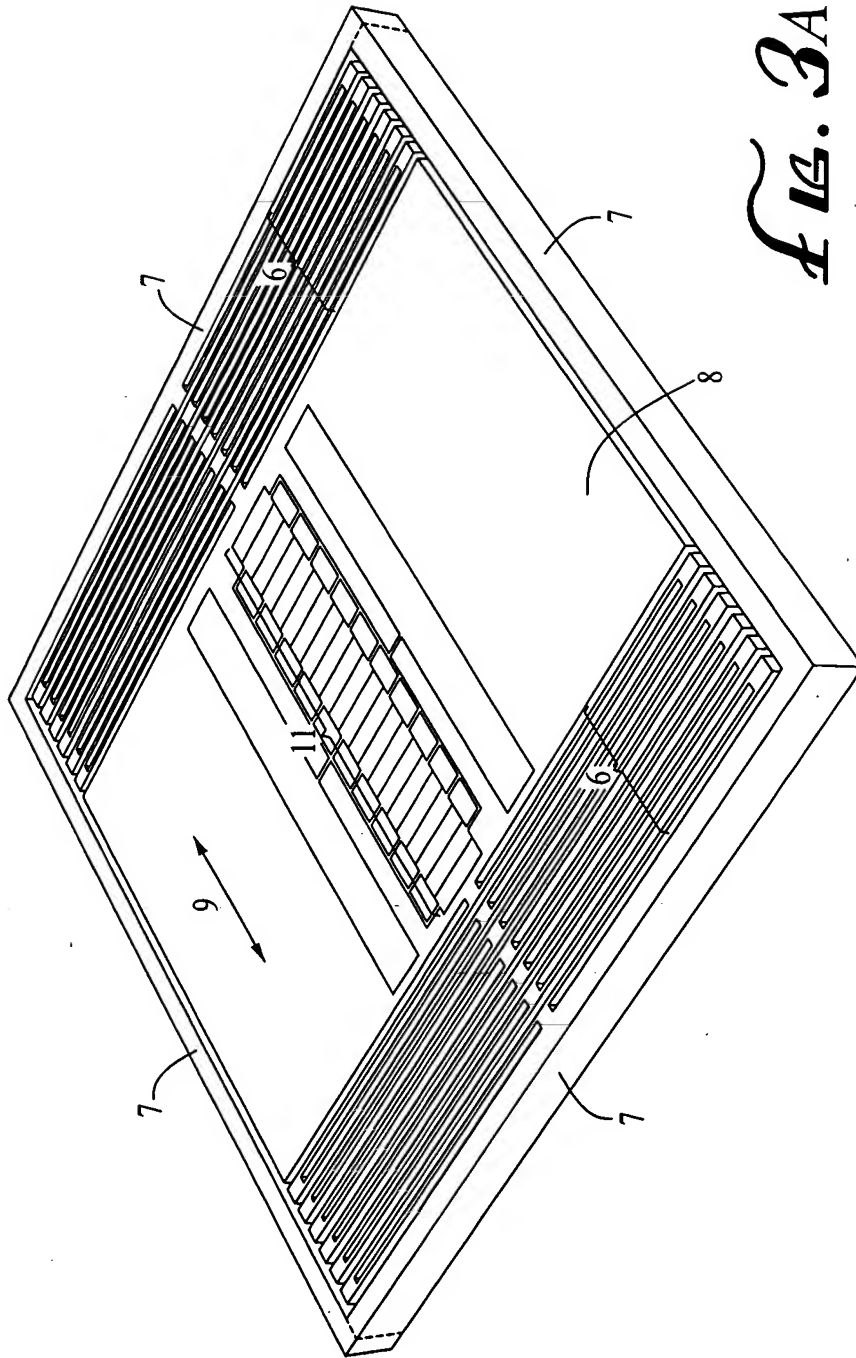


FIG. 3A

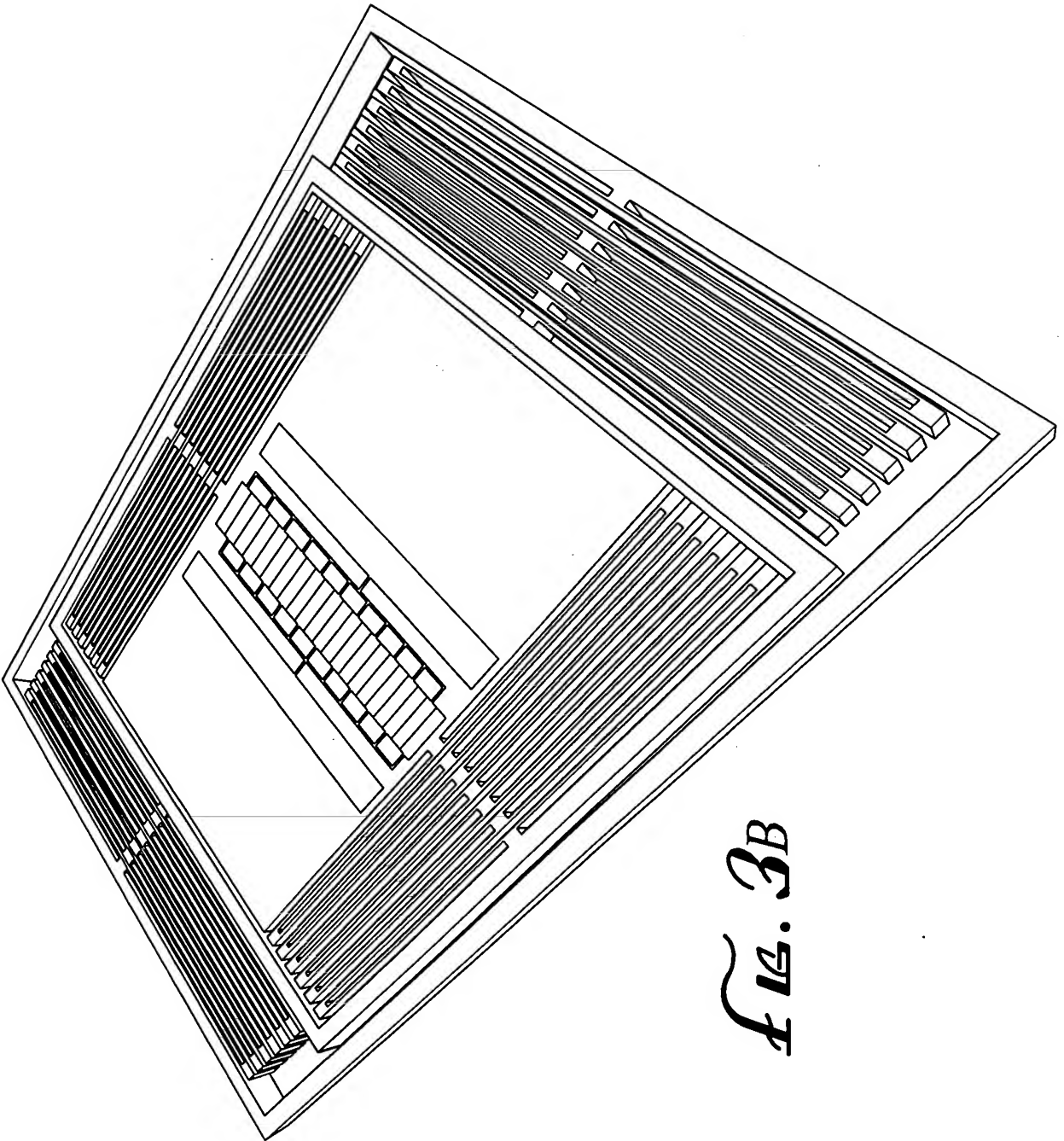


Fig. 3B

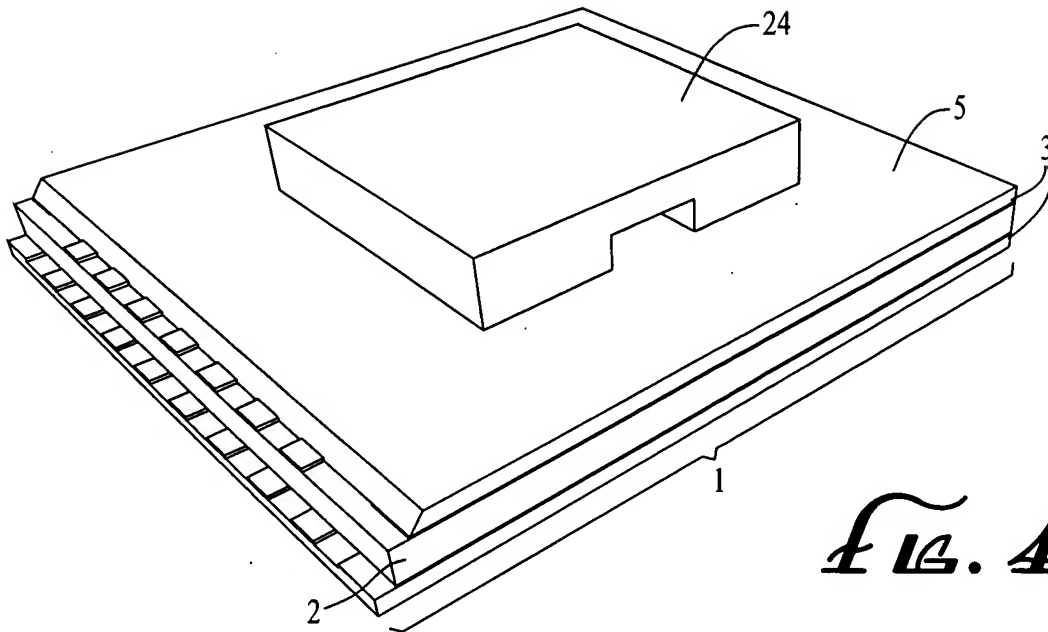


FIG. 4

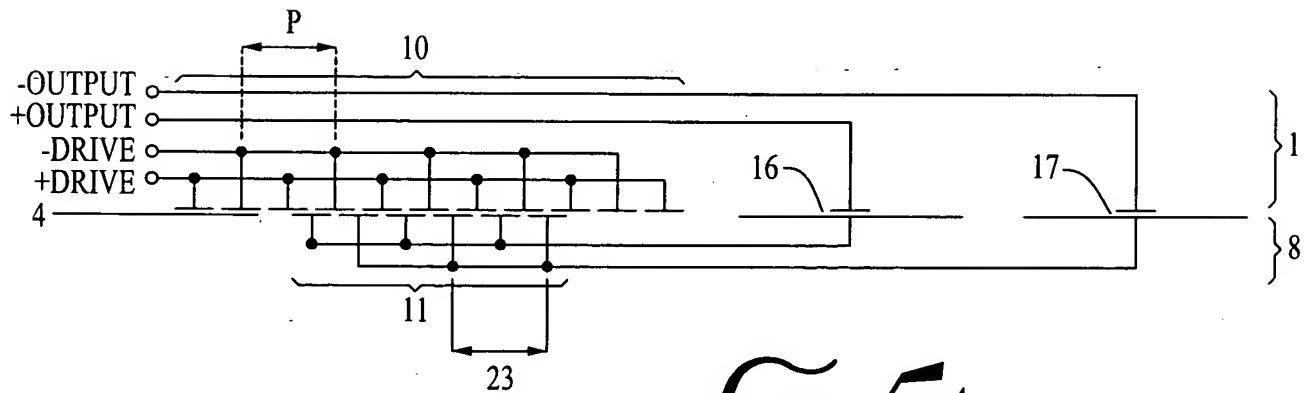
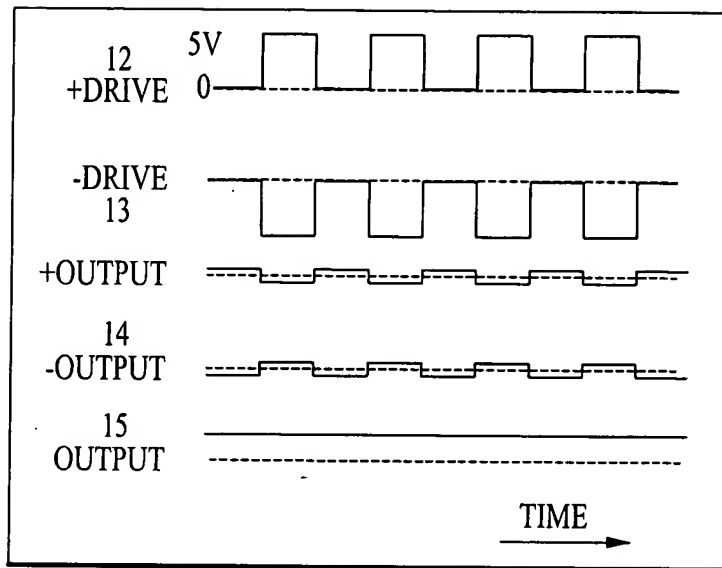
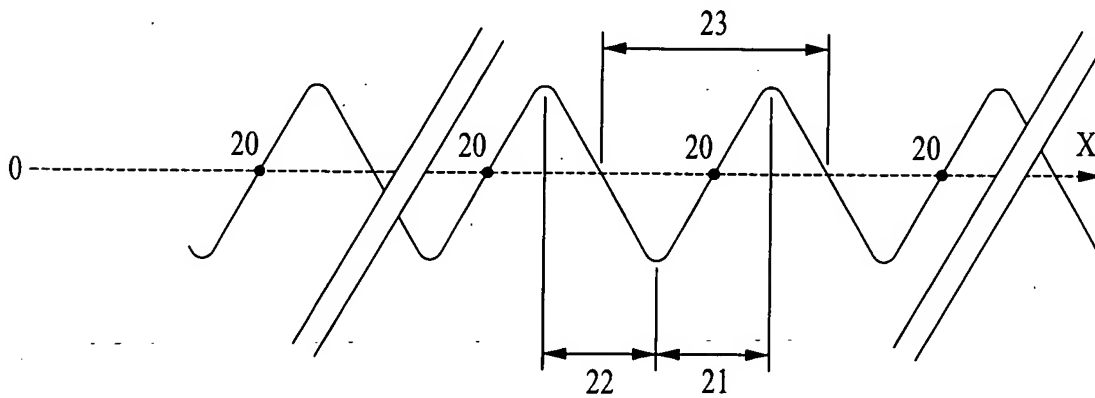
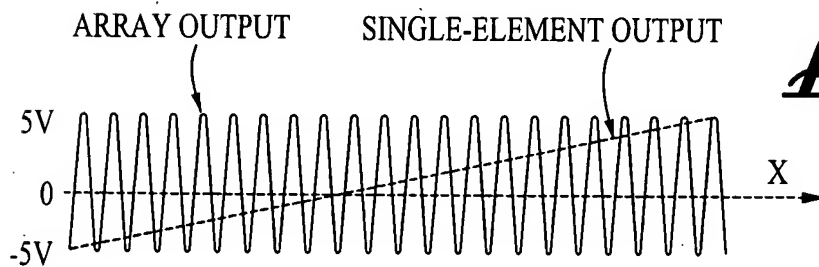


FIG. 5A

*Fig. 5B**Fig. 5C**Fig. 5D*

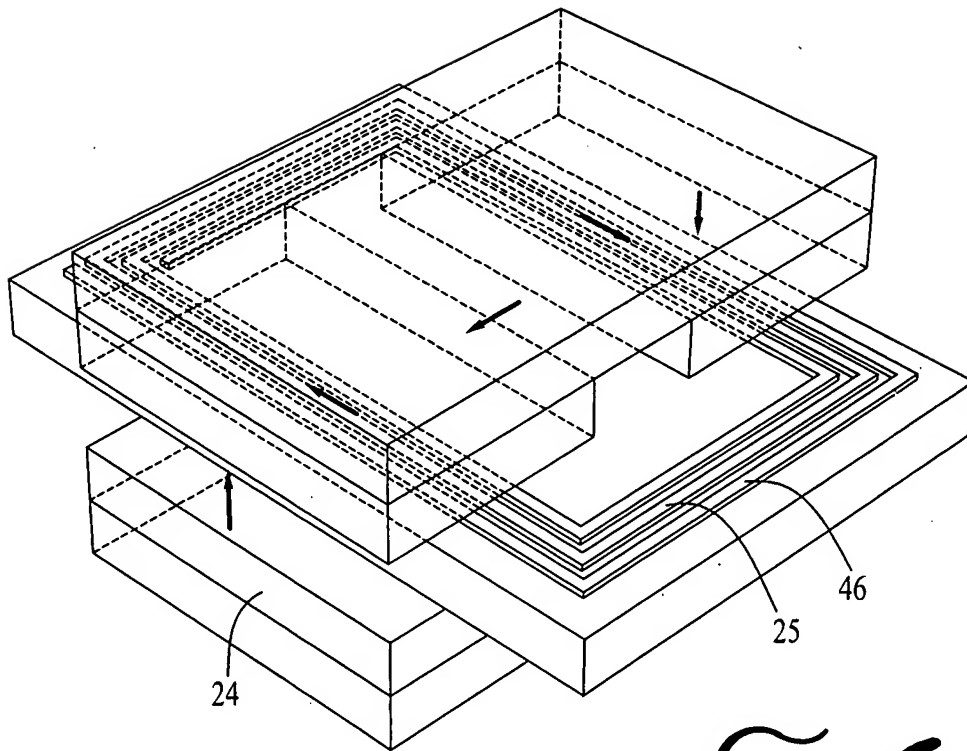


Fig. 6

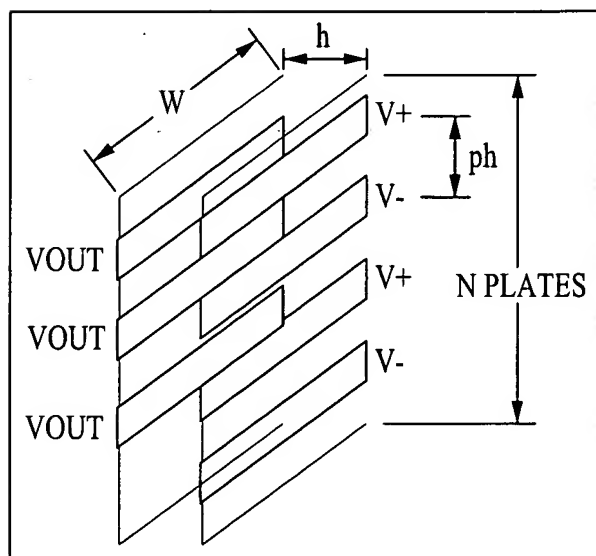


Fig. 10

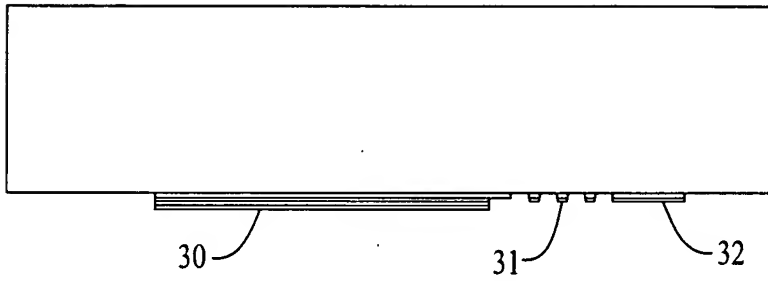


Fig. 7A

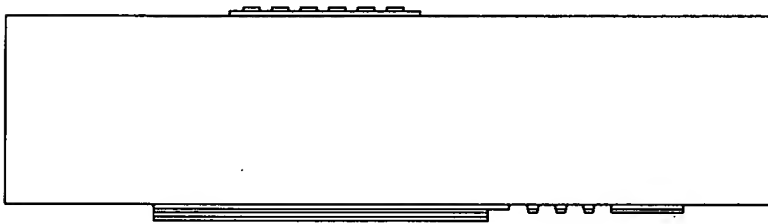


Fig. 7B

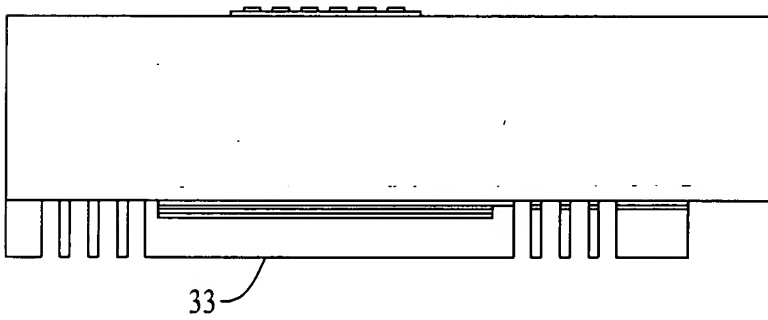


Fig. 7C

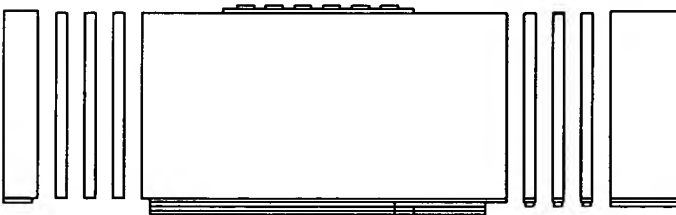


Fig. 7D

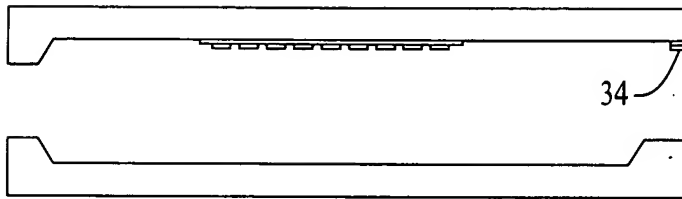


FIG. 7E

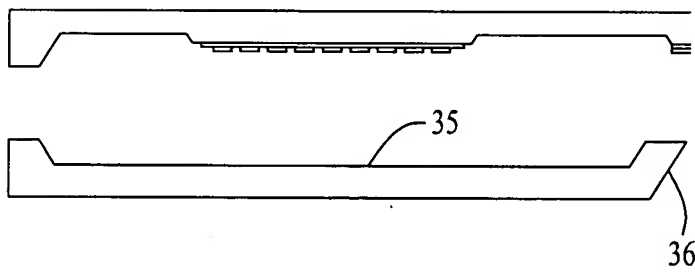


FIG. 7F

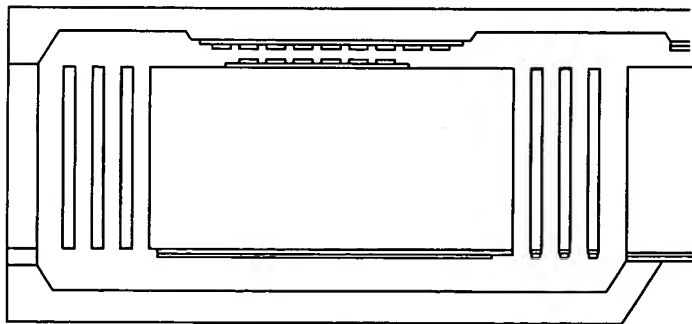


FIG. 7G

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INPUT ACCELERATION

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MECHANICS PROOF MASS(8) FLEXURES(6)

DISPLACEMENT SENSOR ARRAY: (10),(11),(12), (13),(14),(15)

PREAMPLIFIER (37)

DEMODULATOR & FILTER (38)

PHASE SHIFTER(39)

ELECTROSTATIC ACTUATOR

SENSOR OUTPUT (42)

R

C

FEEDBACK ELEMENT (40)

DAMPING ELEMENT (41)

VOLTAGE ON ELECTROSTATIC ACTUATOR DEVELOPING RESTORING FORCE

LIMIT CONTROL (43)

VOLTAGE ON ELECTROSTATIC ACTUATOR DEVELOPING RESTORING FORCE

Fig. 3A

ACCELEROMETER FEEDBACK ELECTRONICS FOR MAGNETIC ACTUATOR

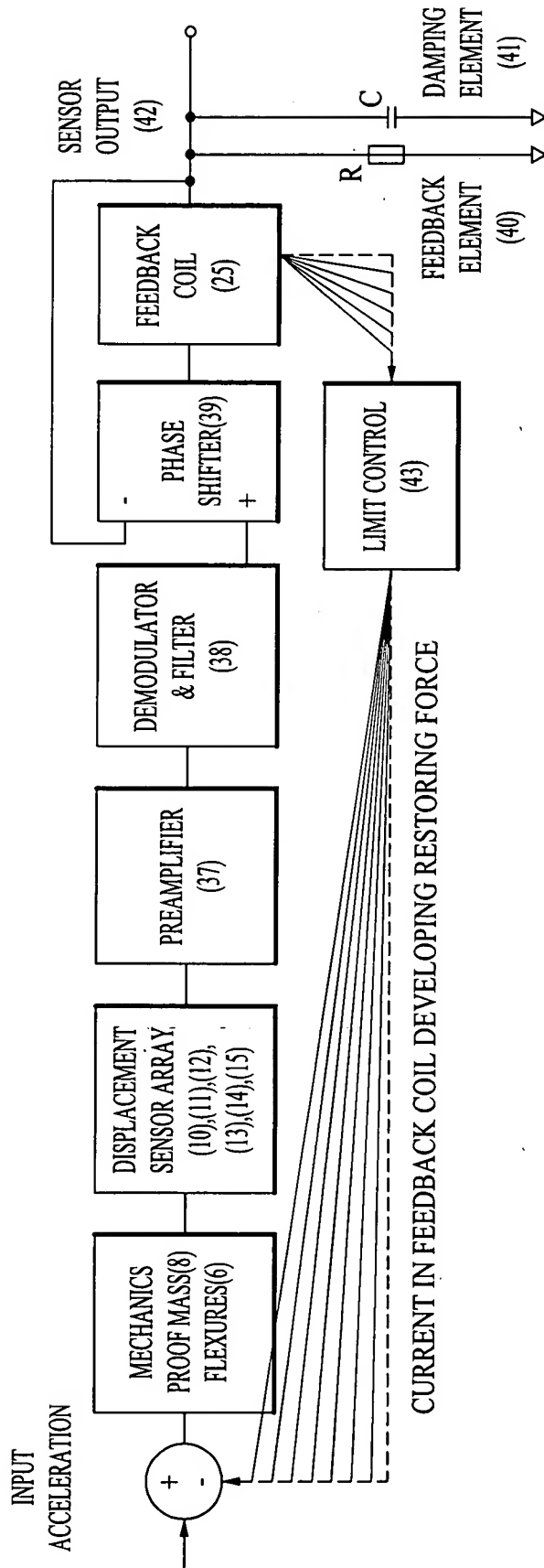


Fig. 8B

DISPLACEMENT TRANSDUCER

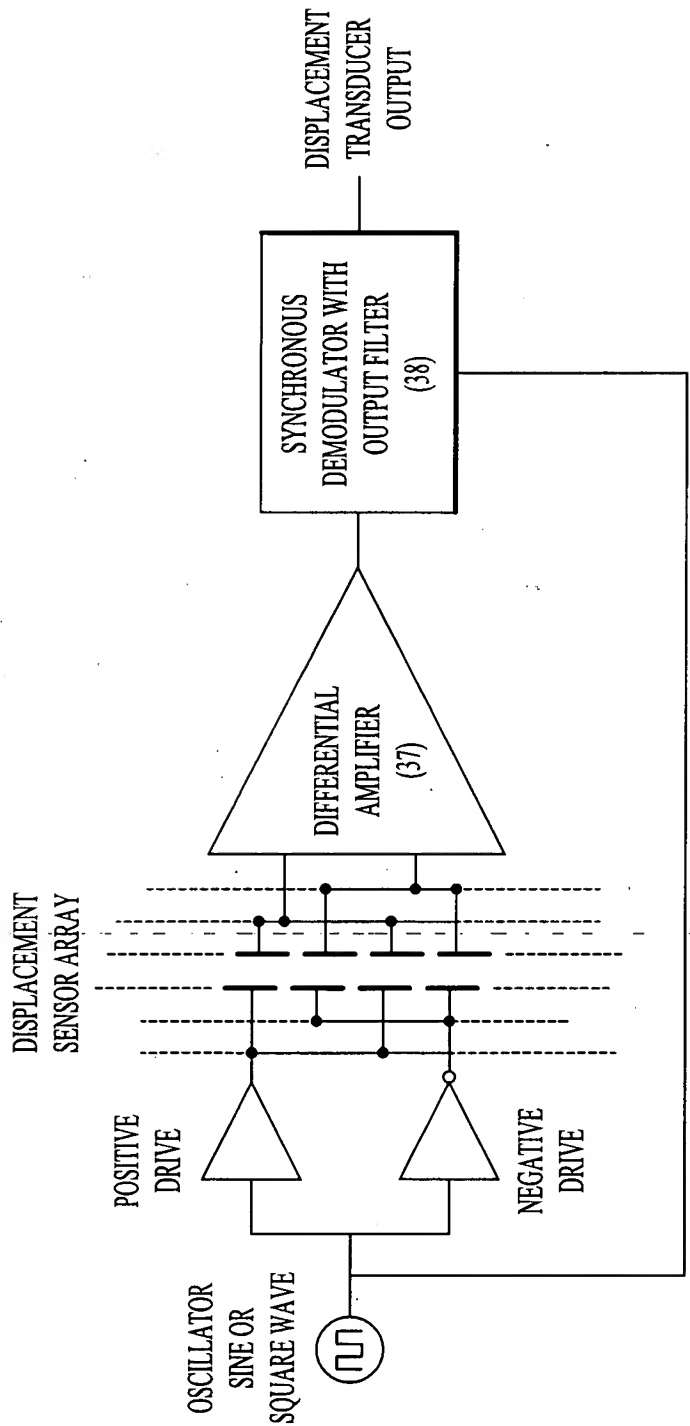


FIG. 8C

VELOCIMETER - SEISMOMETER FEEDBACK ELECTRONICS

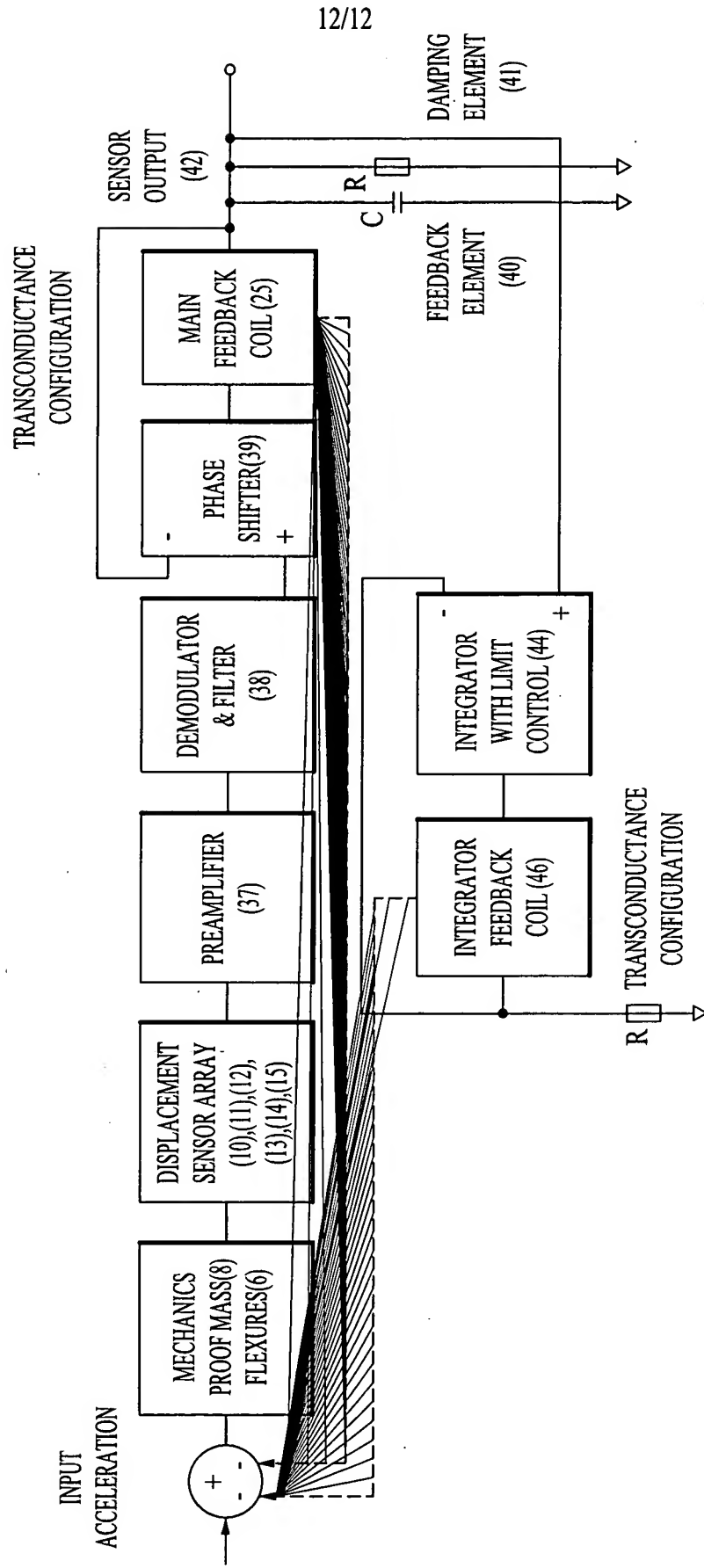


Fig. 9